From: Fuentes, Rene
To: "Mullen, Tom"
Bcc: Winiecki, Eric

Subject: RE: DOCKET NO. SDWA-10-2013-0080 / Groundwater Monitoring Well Installation Activities - Wednesday,

August 21, 2013 Update

Date: Thursday, August 22, 2013 1:22:00 PM

Tom,

Thanks for the update. I am still trying to figure this out since the depth to water and the formation seem so different than anything else we have found. Any interpretation from your end?

Rene

From: Mullen, Tom [mailto:Tom.Mullen@arcadis-us.com]

Sent: Wednesday, August 21, 2013 5:43 PM

To: Fuentes, Rene

Cc: Winiecki, Eric; Freeman, Kevin; Sebesta, Lisa

Subject: DOCKET NO. SDWA-10-2013-0080 / Groundwater Monitoring Well Installation Activities -

Wednesday, August 21, 2013 Update

Rene,

On Wednesday, August 21, 2013, Cascade hand cleared YVD-02 down to 5 feet and drilled YVD-02 to a total depth of 48 feet bgs. Lithology generally consisted of silt to 4 feet, gravelly sand to 12 feet, weathered basalt to 30 feet, and basalt to 48 feet. The 7-inch casing was advanced to 22 feet and then the remainder of the boring was advanced with a down hole hammer to depth. Water was observed at about 22 feet. Upon reaching total depth, the static water level varied from 20.7 to 20.2 over 30 minutes. The 2-inch well was installed with the screen interval set at 15 to 35 feet (the boring from 48 to 36 feet was backfilled with bentonite chips prior to setting the well). The filter pack was placed to 13 feet and the remainder of the well annulus was backfilled with bentonite chips to within 3 feet bgs. Cascade constructed the surface completion including steel surface casing, bollards and concrete pad. Cascade moved off location, deconned drill rods and casing and setup on YVD-06. Cascade cut the asphalt and hand cleared the well location down to 5 feet. Cascade will resume the drilling of YVD-06 tomorrow.

Please let me know if you have any questions.

Thank you

Tom

Thomas F. Mullen, PG | Certified Project Manager / Senior Hydrogeologist | tom.mullen@arcadis-us.com ARCADIS U.S., Inc. | 695 N. Legacy Ridge Drive, Suite 200 | Liberty Lake, WA, 99019 T. 509.928.3369 | M. 208.755.1094 | F. 509.928.3075

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